RCS

Model TR60

Serial Communicating Thermostat

- **RS485 Network Interface**
- **128 x 64 Backlit Graphical Display**
- **6 Buttons with On Screen Labels**
- **4 LEDs with On Screen Labels**
- **Text Messaging via Network**
- **SmartVent Fresh Air venting**
- **Fresh Air damper control**
- **Remote Temp Sensors**
- **Outside Temp Sensor**
- ***Commstar* Network and WinEVM compatible**

Standard Thermostat Functions

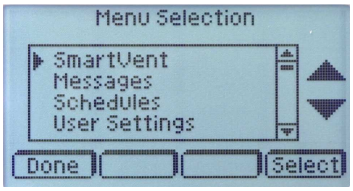
Current Temperature Display
Outside Temperature Display
Setpoint Display and Control
System Mode Display and Control
Fan Mode Display and Control
Time Display

LED Displays

4 LEDS with Dynamic On-Screen Labels

Multi-Menu Screens

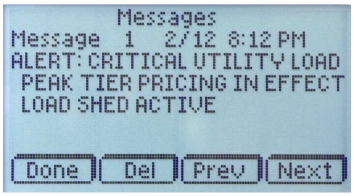
Main Thermostat Screen
Menu selection and scrolling
Message Screen
Schedule Setup
Set Clock
Sensor Calibration
Thermostat Setup
Thermostat Info



Exclusive Messaging Display

Send text messages via the network!

Message Icon with instant access button
Message notification LED
Each message up to 80 Characters
Stores 16 messages
Date/Time Stamped



HVAC System Compatibility

Works with all Standard Gas/Electric and Heat Pump HVAC systems including Multi-stage units

- Central HVAC systems or separate heating/cooling systems with separate RH/RC transformers
- Standard gas/electric HVAC Systems: Two stage heating/two stage cooling
- Heat Pump HVAC Systems: Three stage heating/two stage cooling
- Fan system: Selectable for standard or fan with heat for electric heat systems
- Heat Pump Change Over valve (reversing valve): Selectable for change over with heat or cool operation (O or B output)
- Emergency Heat: In Heat pump mode, Emergency Heat mode is selectable from the wall display unit

Remote Sensors

The TR60 supports up to 2 remote sensors. It "auto detects" any connected remote sensor and automatically configures the control unit to use them. Uses RCS remotes sensors such as the RTS3 and RTS4.

Serial Communications Interface

RS485 network communications: 2 wire + ground, half duplex. Communicates at 9600 baud, 8 bits, no parity and 1 stop bit. Supports RS485 network addresses up to 254 thermostats. Uses simple ASCII protocol supported by virtually all control systems.

Ordering Information

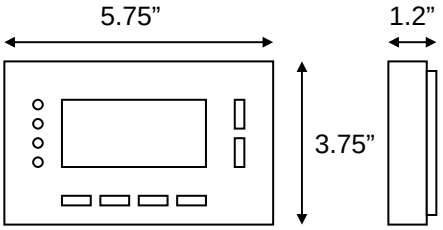
Model	Description	Part Number
TR60	Thermostat with RS485 Interface	001-01761

Power:

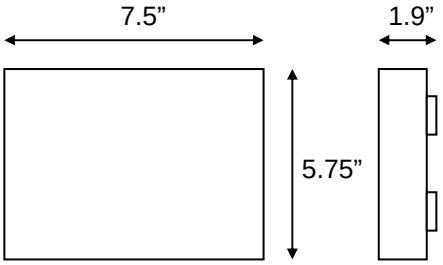
HVAC Control Unit: 24VAC 50 mA powered from HVAC System (Furnace or Air Handler)
Wall Display Unit: 12VDC 100 mA powered from HVAC Control Unit

Size:

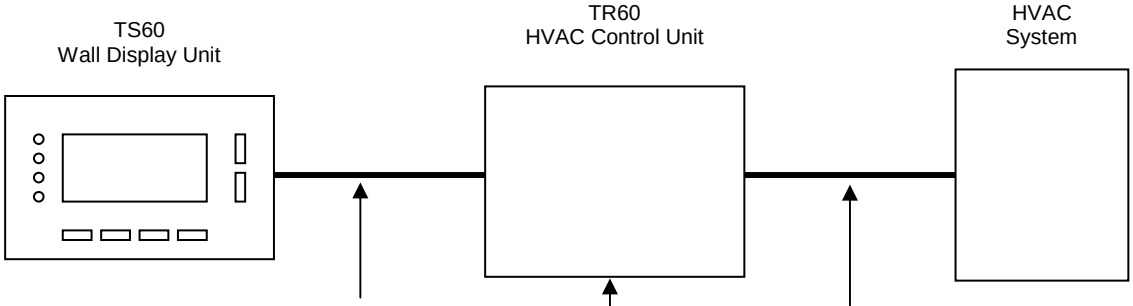
Wall Display Unit: TS60



HVAC Control Unit: ZCV1



Wiring Recommendation:



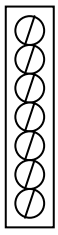
WDU to Control Unit Wiring
- 4 Wire
- 22/24 Ga minimum
- Category 5 Wire or
- Standard Thermostat Wire

Com Port: RS485 Wiring
- 2 wire D+/D- and Gnd
- 22/24 Ga minimum
- Cat 5 Wire Typically

Control Unit to HVAC System Wiring:
Standard Thermostat Wiring (18/20 Ga)
- 5 wire for standard one stage heating/cooling systems
- 6-8 wire for Heat Pump or multi-stage systems

Refer to your HVAC System’s Thermostat wiring requirements.

TR60 Control Unit

HVAC System Connections

Typical Wiring Colors		Standard HVAC System	Heat Pump HVAC System
Red	RC	24VAC Cool	24VAC Return
Red	RH	24VAC Heat	24VAC not used
White	W1	Heat 1	Heat Strips
Orange	W2/CO	Heat 2	CO Valve
Green	G	Fan	Fan
Yellow	Y1	Cool 1	Comp 1
Black	Y2	Cool 2	Comp 2